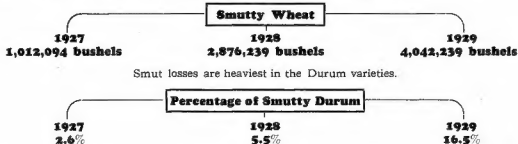


Smutty Wheat is a Menace

The Facts "Stinking smut" of wheat (known also as "bunt", or "ball smut") is increasing in Western Canada. The grain inspection records tell the story.



On every car of smutty wheat you lose approximately \$130.00. At the cost of 35 cents you can treat 50 bushels of seed wheat with formalin and insure your crop against smut.

The Treatment

1. Before treating, pass the seed grain through the fanning mill to *remove the bunt balls*. Use plenty of air; feed the grain slowly; make a good job.
2. Prepare the treating solution by adding *1 pound of formalin to 30 Imperial gallons of water, or 1 Imperial pint of formalin to 40 Imperial gallons of water*. Measure both formalin and water accurately.
3. If you have a Grain Pickler use it; if not, observe the following directions.
4. The night before sowing, place the grain on the granary floor or in a wagon box and spread it out in a low pile about 4 inches deep. Sprinkle the formalin solution over the grain. Then shovel the grain into a fresh pile and sprinkle again. Repeat this process *until each kernel is moist*. Forty gallons of solution will treat 50 bushels of grain.
5. Heap the grain into a pile, and cover it with blankets or bags moistened with the treating solution to keep in the fumes. Leave the grain covered for at least 4 hours; then seed as soon as possible.
6. If all bunt balls cannot be removed by fanning, treat as follows: Pour the grain slowly into a tank of the formalin solution; stir vigorously to bring the bunt balls to the surface; then skim them off; drain off the solution; shovel the grain into a pile; cover for at least 4 hours; and seed as soon as the grain will run through drill.

Things to Remember

1. Clean floors, bins, wagon boxes, bags and drills with some of the treating solution; this will prevent the grain from becoming contaminated again after treatment.
2. Keep all formalin containers tightly closed. Do not make up at one time more solution than you will require for the day.
3. Do not let moist treated grain freeze.
4. Treat all Durum wheat with formalin solution. Copper carbonate dust should be used only for treating common wheat which is slightly contaminated. Bluestone treatment is no longer recommended.
5. *Treat this year even if your grain appears to be clean. Prevention is the easiest and cheapest method of smut control.*

FOR FURTHER INFORMATION WRITE

**The Dominion Rust Research Laboratory, Agricultural College,
WINNIPEG**

**or the Division of Botany, Central Experimental Farm,
OTTAWA**

**FOLLOW THESE DIRECTIONS CAREFULLY
TREAT YOUR GRAIN AND PROTECT YOUR CROP**

Division of Botany

Dominion Experimental Farms

